This listing of claims will replace all prior versions and listings of claims in the application:

## Listing of Claims:

- 1-3. (Cancelled)
- 4. (Currently amended) A method for diagnosing Alzheimer's disease comprising:
- (a) obtaining blood or cerebrospinal fluid from a subject;
- (b) detecting determining the amount of human kallikrein 6 ("hK6") in said blood or cerebrospinal fluid; and
- (c) comparing said amount of hK6 detected to an amount for healthy control subjects, where detection of a statistically significant increase of hK6 compared with an amount for the healthy control subjects is indicative of Alzheimer's disease.
- 5. (Currently amended) A method for diagnosing Alzheimer's disease as claimed in claim 4 comprising:
  - (a) obtaining blood or cerebrospinal fluid from a subject;
  - (a b) contacting the blood or cerebrospinal fluid with an antibody specific for hK6 which is directly or indirectly labelled with a detectable substance;
  - (b c) detecting determining the hK6 by measuring the amount of the detectable substance in the blood or cerebrospinal fluid;
  - (e d) comparing the amount of hK6 to an amount obtained for samples from healthy control subjects where a statistically significant increase in the amount of hK6 compared with the amount for the healthy control subjects is indicative of Alzheimer's disease.
- 6. (Currently amended) A method for the diagnosis of Alzheimer's disease as claimed in claim 4-comprising:
  - (a) obtaining blood or cerebrospinal fluid from a subject;

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- incubating the blood or cerebrospinal fluid with a first antibody specific for hK6 (a b) which is directly or indirectly labeled with a detectable substance, and a second antibody specific for hK6 which is immobilized;
- separating the first antibody from the second antibody to provide a first antibody phase and a second antibody phase;
- detecting determining the hK6 by measuring the amount of the detectable  $(e \underline{d})$ substance in the first or second antibody phase; and
- comparing the amount of hK6 with an amount obtained for samples from healthy control subjects where a statistically significant increase in the amount of hK6 levels compared with the amount for the healthy control subjects is indicative of Alzheimer's disease.

## 7-8. (Cancelled)

- 9. (Currently amended) A method as claimed in claim 6 wherein in step [[(a)]] (b) the first and second antibodies are contacted simultaneously or sequentially with the blood or cerebrospinal fluid.
- 10. (Previously presented) A method as claimed in claim 5 wherein the antibody is a monoclonal antibody, a polyclonal antibody, immunologically active antibody fragments, humanized antibody, an antibody heavy chain, an antibody light chain, a genetically engineered single chain F<sub>v</sub> molecule, or a chimeric antibody.
- 11. (Previously presented) A method as claimed in claim 5 wherein the detectable substance is alkaline phosphatase.
- 12. (Previously presented) A method as claimed in claim 11 wherein the alkaline phosphatase is detected using a fluorogenic substrate.

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13. (Previously presented) A method as claimed in claim 12 wherein hK6 is detected determined using time-resolved fluorescence.

14-15. (Cancelled)